

A B S T R A C T     O F     T H E     D I S C L O S U R E

The base station is used in a microcell of a multilayer radio communication cellular network. It has a wire interface for connection to a wire access network and an air interface for communicating by radio with mobile station in accordance with a time division multiple access operating mode, with signal frames each divided into a number  $N$  of successive timeslots. Telephone communications involving a mobile station located within radio range of the equipment can be established through the wire network by means of the wire interface and the air interface. The air interface transmits a radio signal in each timeslot of the frames on a beacon frequency, that radio signal comprising a beacon signal carrying signalling information in at least one timeslot as long as at most  $N-1$  of the timeslots of the frame on the beacon frequency are occupied by communications with mobile stations. The air interface stops transmitting the beacon signal when the  $N$  timeslots on the beacon frequency are occupied by communications with mobile stations.

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